

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
MISSOURI CLEAN WATER COMMISSION



## MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

**Permit No.:** MO-0113000

**Owner:** Onyx Oak Ridge Landfill, Inc.

**Owner's Address:** 1741 Sulphur Spring Road, Ballwin, MO 63021

**Operating Authority:** Onyx Oak Ridge Landfill, Inc.

**Operating Authority's Address:** 1741 Sulphur Spring Road, Ballwin, MO 63021

**Facility Name:** Onyx Oak Ridge Landfill, Inc.

**Facility Address:** 1741 Sulphur Spring Road, Ballwin, MO 63021

**Legal Description:** (See Page 2)

**Receiving Stream:** (See Page 2)

**First Classified Stream and ID:** (See Page 2)

**USGS Basin & Sub-watershed No.:** (See Page 2)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

### FACILITY DESCRIPTION

See Page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

June 2, 2006

Effective Date

Doyle Childers Director, Department of Natural Resources  
Executive Secretary, Clean Water Commission

June 1, 2011

Expiration Date

Mike Struckhoff, Director, St. Louis Regional Office

**LEGAL DESCRIPTION** (continued)

Outfall #001 - **(eliminated)**- combined with #004 and monitored through #005  
Outfall #002 - NE  $\frac{1}{4}$ , NE  $\frac{1}{4}$ , Sec. 14, T44N, R4E, St. Louis County  
Outfall #003 - SE  $\frac{1}{4}$ , NE  $\frac{1}{4}$ , Sec. 14, T44N, R4E, St. Louis County  
Outfall #004 - **(eliminated)** combined with #001 and monitored through #005  
Outfall #005 - SW  $\frac{1}{4}$ , NW  $\frac{1}{4}$ , Sec 13, T44N, R4E St. Louis County

**Outfalls #002, & #005**

**Receiving Stream:** Wet Weather Tributary to Fishpot Creek (U)  
**First Classified Stream and ID:** Fishpot Creek (P)(02186)  
**USGS Basin & Sub-watershed No.:** (07140102-080002)

**Outfall #003**

**Receiving Stream:** Meramec River(P)  
**First Classified Stream and ID:** Meramec River (P)(02185)  
**USGS Basin & Sub-watershed No.:** 07140102-080002)

**Facility Description:**

**Outfall #002-** Sanitary Landfill/Storm Water Runoff - SIC #4953  
Sedimentation basin/stormwater runoff.  
Flow dependent upon precipitation.

**Outfall #003** - Sanitary Landfill/Storm Water Runoff - SIC #4953  
Stormwater runoff.  
Flow dependent upon precipitation.

**Outfall #005 (outfall #001 and #004 combined)**

Sanitary Landfill/Storm Water Runoff - SIC #4953  
Stormwater runoff.  
Flow dependent upon precipitation

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 6	
					PERMIT NUMBER MO-0113000	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>All Outfalls</u>						
Flow	MGD	*		*	once/quarter**	instantaneous estimate
Rainfall	Inches	*		*	daily measurement	***
BETX	mg/L	0.75		0.75	once/quarter**	grab
Biochemical Oxygen Demands	mg/L	60		45	once/quarter**	grab
Chemical Oxygen Demand	mg/L	120		90	once/quarter**	grab
Total Suspended Solids	mg/L	80		60	once/quarter**	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/quarter**	grab
Total Dissolved Solids	mg/L	*		*	once/quarter**	grab
Conductivity (Specific Conductance)	umhos/cm	*		*	once/quarter**	grab
Chloride Plus Sulfates	mg/L	1500		1000	once/quarter**	grab
Iron, Total Recoverable	mg/L	*		*	once/quarter**	grab
pH - Units	SU	****		****	once/quarter**	grab
(CONTINUED)						
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>October 28<sup>th</sup>, 2006</u> ____.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 4 of 6	
					PERMIT NUMBER MO-0113000	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
All Outfalls (continued)						
Calcium	mg/L	*		*	once/year*****	grab
Fluoride	mg/L	*		*	once/year*****	grab
Total Hardness	mg/L	*		*	once/year*****	grab
Barium, Total Recoverable	mg/L	*		*	once/year*****	grab
Boron, Total Recoverable	mg/L	*		*	once/year*****	grab
Cadmium, Total Recoverable	mg/L	*		*	once/year*****	grab
Chromium, Total Recoverable	mg/L	*		*	once/year*****	grab
Copper, Total Recoverable	mg/L	*		*	once/year*****	grab
Sodium, Total Recoverable	mg/L	*		*	once/year*****	grab
Ammonia as N	mg/L	*****		*****	once/year*****	grab
Nitrate and Nitrate as N	mg/L	*		*	once/year*****	grab
Phosphorus, Total Recoverable	mg/L	*		*	once/year*****	grab
Mercury, Total Recoverable	mg/L	*		*	once/year*****	grab
Arsenic, Total Recoverable	mg/L	*		*	once/year*****	grab
Lead, Total Recoverable	mg/L	*		*	once/year*****	grab
Selenium, Total Recoverable	mg/L	*		*	once/year*****	grab
(CONTINUED)						
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28<sup>th</sup>, 2006</u> .						

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>					PAGE NUMBER 5 of 6	
					PERMIT NUMBER MO-0113000	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>All Outfalls</u>						
Silver, Total Recoverable	mg/L	*		*	once/year*****	grab
Manganese, Total Recoverable	mg/L	*		*	once/year*****	grab
Magnesium, Total Recoverable	mg/L	*		*	once/year*****	grab
Zinc, Total Recoverable	mg/L	*		*	once/year*****	grab
Antimony, Total Recoverable	mg/L	*		*	once/year*****	grab
Beryllium, Total Recoverable	mg/L	*		*	once/year*****	grab
Nickel, Total Recoverable	mg/L	*		*	once/year*****	grab
Sulfate	mg/L	*		*	once/year*****	grab
Thallium, Total Recoverable	mg/L	*		*	once/year*****	grab
Total Organic Carbon	mg/L	*		*	once/year*****	grab
Vanadium, Total Recoverable	mg/L	*		*	once/year*****	grab
Oil and Grease	mg/L	15		10	once/year*****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28<sup>th</sup>, 2006</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
<b>B. STANDARD CONDITIONS</b>						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* Sample once per quarter in the months of March, May, September, and November.
- \*\*\* Grab samples shall be collected during a rainfall event, when there is runoff from the landfill site. The sample shall be collected no later than one hour after runoff begins.
- \*\*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\*\* The discharge shall not exceed the appropriate values in Table B 10 CSR 20, 7.031.
- \*\*\*\*\* Samples to be taken in May and submitted on the October discharge monitoring report.

C. SPECIAL CONDITIONS

1. This permit may be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C), and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

- (a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- (b) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

2. All design and operating specifications and all Solid Waste Management Program approval conditions pertaining to water quality are hereby made a part of this permit and shall apply throughout the life of this permit without regard to other conditions, permits, occurrences, etc.
3. This permit does not allow the discharge of storm water that has contacted the open face of the landfill. This permit does not allow the discharge of untreated leachate. All leachate shall be handled in accordance with the Solid Waste Disposal Area Operating Permit, Report of Approval of Plans and Specifications (with conditions).
4. This permit may be reopened and modified or alternatively revoked and reissued, to incorporate new or modified effluent limitations or other conditions, if the result of a wasteload allocation study, toxicity test, or other information indicates changes are necessary to ensure compliance with Missouri's Water Quality Standards.
5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
  - (1) One hundred micrograms per liter (100 ug/L);
  - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,5 dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
  - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

6. Report as no-discharge when a discharge does not occur during the report period.
7. All discharges shall comply with the Missouri Water Quality Standards, 10 CSR 20-7.031, Section (3)(C), which states "Waters shall be free from substance in sufficient amounts to cause unsightly color or turbidity...", and Section (4)(G), which states "Water contaminants shall not cause or contribute to turbidity or color that will cause substantial visible contact with the natural appearance of the stream...".
8. All activities performed to control erosion on the landfill site (seeding, mulching, terracing, etc.) shall be described and submitted along with the second quarter and fourth quarter Discharge Monitoring Reports. If no erosion controls are undertaken, indicate so on the reports.